

Does CTE Have a Role

.....In High School and
Post Secondary Reforms?

Reforms

What Are The Buzz Words?

- Accountability
- High School Retention
- Expectations and Rigor
- Choice
- Preparation for Post Secondary
- Retention and Persistence in Higher Ed
- Economic Development

National Initiatives

- National Governor's Association
- National School Principals Association
- Bill Daggett
- Gates Foundation
- ACT
- Perkins Reauthorization - Pathways
- Community College Pathway Transitions

Themes

- Academic Rigor
- Core Requirements, Assessments
- Access to Guidance Counseling
- Support/Interventions/Reduce Dropout
- Alignment of K-16
- More Participation and Completion - Post Secondary Education
- Staff Development and Leadership

Utah Initiatives

- Tech Prep
- School-to-Careers
- Employers Coalition (2002)
- SB 154
- Performance Plus – Competency Measured
- UPASS and UBSCT
- K-16 Committee
- NCLB
- Governor's Commission on High School

What's next?

- When can I retire?
- What are they going to take off my plate?
- What new thing will they think up next year?

"Finish what you start....."

Gaps....

Current Gaps in Utah

- Skill set requirements of today's jobs
- Job outlook match with education
- High school student intentions
- Retention
- Achievement gap
- Awareness - students, parents, educators,
- Guidance of students for preparation

Gap: Intention & Completion

- 80% of Utah's Seniors say they are going to college
- 50% enroll
- Completion Rates
 - 34% complete a postsecondary degree
(of which approximately 25% obtain a bachelors or higher)
 - 66% ??????

Gap: Utah's Jobs

Local and National Data on Jobs:

- 20% require a bachelors degree or higher
- 65% require advanced CTE/technical training either in high school or college
- 15% are "unskilled"

"Gold Collar Jobs"

Gap: Job Outlook and Education

- 18 of the 20 fastest growing occupations within the next decade will require Career and Technical Education.

U.S. Bureau of Labor Statistics

Gaps: Nationally

- 35% of students are college-ready
- Three-quarters of top 50 fastest-growing jobs require education beyond high school
- Changing demographics, future workforce are dropping out of school
- Even one year of postsecondary education increases lifetime earnings by as much as 15 percent per year

Gap: Retention

For every 10 students who start high school...

- 7 will get a high school diploma
 - 4 will enroll in a postsecondary institutions
 - Fewer than 2 will complete a bachelor's or an associate's degree in a timely manner.

Even fewer African American and Latino youth complete high school and transition to college.

Gap: Preparation

- About 70 percent of students are reading below grade level when they enter the 9th grade
- Nationally, 8th graders are not performing well in mathematics

Gap: Disengaged

- Wasted senior year
 - "senioritis"
 - "state-subsidized dating"
- Drop out rate
 - 74% graduation rate in 1984
 - 67% graduation rate in 2000

Gap: Rigor and Reform = More?

- “Rigor” and “Reform”
 - Increased academic requirements?
 - Increased attainment and mastery?
 - Interventions and remediation
- Examination of current requirements
 - Content, expectations, application
 - SEOP driven

CTE's Role?

Will CTE Contribute?

- Academic Rigor
- Core Requirements, Assessments
- Access to Guidance Counseling
- Support/Interventions/Reduce Dropout
- Alignment of K-16
- More Participation and Completion - Post Secondary Education
- Staff Development and Leadership

Traditional Goals of Secondary Education

- Academic rigor

.....AND

- Preparing students for success in the workplace

Can high schools do both well?

Is CTE Effective?

- CTE is highly successful in improving earnings, both for students who enter the workforce right out of high school and for those who work while going to college.
- The more CTE courses students took, the more their earnings increased across many groups.

Is CTE Effective?

- Student who took both a core academic curriculum and CTE – greatest earnings.
- Seven years after graduation – earnings
- 2 percent more annually for each CTE course they took.
- By these measures CTE works.

NAVE Study, 2004, US Department of Education

Is CTE Effective?

- More CTE concentrators enroll in postsecondary education immediately after high school.
- Eight years after graduation, 53 percent of concentrators had earned a postsecondary degree or certificate.

Is CTE Effective?

- “Students who take two or more CTE courses are less likely to drop out of high school.”

Federally funded CTE study, 2002

National Center, The Ohio State University

Is CTE Effective?

- CTE helps students be more engaged in school
- CTE helps prevent drop out
- CTE helps students be more prepared for college entry

.... CTE is certainly compatible with more rigor, improved academic achievement, and postsecondary enrollment...

Is This Enough?

- Can CTE contribute to improved academic achievement?
 - Doesn't detract
 - Does it help? By which measures?
- How much do we value the employment advantages of CTE participation?
- CTE does have a role in reforms.

Pathways

College and Career
Transitions

Pathways as a strategy...

- Rigor
- Relevance
- Relationships

Research to Support Pathway Transition Initiative

What Does This Mean...

- For Utah?
- For Public Education?
- For Higher Education?
- For Counselors?
- For CTE?
- For Teachers?
- For Administrators?

Public Education Components

- Meets state academic standards and grade-level expectations
- Meets high school testing and exit requirements
- Meets postsecondary entry/placement requirements
- Provides academic and career-related knowledge and skills in a chosen career cluster; and
- Provides concurrent enrollment, A.P. Tech Prep, and articulation agreements.

Postsecondary Components

- Concurrent enrollment
- Articulation agreements
- Alignment and articulation with baccalaureate programs
- Industry-recognized skills and knowledge in each cluster area; and
- Employment, business, entrepreneurial opportunities at multiple exit points.

Utah's Pathway Foundation...

- ✓ Concurrent Enrollment
- ✓ Comprehensive Guidance/Advisement
- ✓ Core Curriculum
- ✓ CTE Skill Certificate Program
- ✓ Articulation
- ✓ Regional Partnerships
- ✓ Distance Learning
- ✓ Tech Prep Pathways Developed
- ✓ Involvement in National Career Clusters

Anticipated Outcomes for Utah

- Decreased remediation
- Increased entry into employment and further education
- Increased enrollment and persistence in postsecondary education
- Increased academic and skill achievement
- Increased attainment of certificates, degrees, credentials

CTE Strategies

CTE Strategies

1. Easing Transitions

Pathway Development/Articulation

- Expand Tech Prep concept
 - Outline of required courses in the path
 - Articulation
 - Concurrent enrollment
- K-16 Initiative at State Level
- State articulation and degree transfer
- Involvement in pathway development
- Pathway options and SEOP

CTE Strategies

2. Academic Expectations

CTE's Role in Academic Expectations

- Applied/Relevant
- Provide numeracy, literacy, and writing instruction in CTE
- Expectations and success for ALL
- Alignment - post secondary expectations
- Need of academic rigor for college and career success

CTE Strategies

3. Addressing Employer Complaints

CTE Rigor and Skill Alignment

- Skill Certificate Program
- Industry Certification/College Certificates
- Close gap - education and employer needs
 - Strong Industry Partnerships
 - Teach "Employability Skills"
 - CTE Curriculum Alignment with Industry
 - Teach applied academics
 - Ties between high school and college CTE programs

CTE Strategies

4. Student Direction, Planning, Success

Strengthen Guidance and Advisement

- Comprehensive Guidance
 - Funding/More counselors/Staff development
 - Teachers provide more guidance opportunities
- College advisement
- All students
- [Careers.utah.gov](http://careers.utah.gov) and UtahCTE.org

CTE Strategies

5. Pathway Transitions Sustainability

Awareness, Staff Development, Data

- All faculty members
- Parent and student awareness
- State Board/Board of Regents
- College definition
- Legislators/Governor's Office
- Employers
- Data

“Charting a New Course for CTE”

Perkins Reauthorization

- Expectations for students
 - Academic
 - Technical Skills
- Easing transitions
- Creating pathways
- High school reform
- College entrance and completion

CTE's Is a Key Strategy

.....In High School and
Post Secondary Reform